

VERMOX- mebendazole tablet, chewable
Johnson & Johnson Consumer Inc, McNeil Consumer Healthcare Division

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use VERMOX™ safely and effectively. See full prescribing information for VERMOX™.

VERMOX™ (mebendazole) chewable tablets for oral use

Initial U.S. Approval: 1974

----- **INDICATIONS AND USAGE** -----

VERMOX™ is an anthelmintic indicated for the treatment of patients two years of age and older with gastrointestinal infections caused by:

- *Ancylostoma duodenale* (hookworm),
- *Ascaris lumbricoides* (roundworm),
- *Enterobius vermicularis* (pinworm),
- *Necator americanus* (hookworm), and
- *Trichuris trichiura* (whipworm), (1).

----- **DOSAGE AND ADMINISTRATION** -----

Adults and Pediatrics: The tablet may be chewed, swallowed, or crushed and mixed with food (2).

	Pinworm (enterobiasis)	Whipworm (trichuriasis)	Roundworm (ascariasis)	Hookworm
Dose	1 tablet once	1 tablet morning and evening for 3 consecutive days	1 tablet morning and evening for 3 consecutive days	1 tablet morning and evening for 3 consecutive days

----- **DOSAGE FORMS AND STRENGTHS** -----

- Chewable Tablet: 100 mg (3)

----- **CONTRAINDICATIONS** -----

- Patients with a known hypersensitivity to the drug or its excipients (4).

----- **WARNINGS AND PRECAUTIONS** -----

- **Risk of Convulsions:** Convulsions in infants below the age of 1 year have been reported (5.1).
- **Hematologic Effects:** Neutropenia and agranulocytosis have been reported in patients receiving mebendazole at higher doses and for prolonged duration. Monitor blood counts in these patients (5.2)
- **Metronidazole and Serious Skin Reactions:** Stevens-Johnson syndrome/toxic epidermal necrolysis (SJS/TEN) have been reported with the concomitant use of mebendazole and metronidazole. Avoid concomitant use of mebendazole and metronidazole (5.3).

----- **ADVERSE REACTIONS** -----

- Adverse reactions reported in clinical trials were anorexia, abdominal pain, diarrhea, flatulence, nausea, vomiting and rash. (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Janssen Pharmaceuticals, Inc. at 1-800-JANSSEN (1-800-526-7736) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 6/2017

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

VERMOX™ is indicated for the treatment of patients two years of age and older with gastrointestinal infections caused by *Ancylostoma duodenale* (hookworm), *Ascaris lumbricoides* (roundworm), *Enterobius vermicularis* (pinworm), *Necator americanus* (hookworm), and *Trichuris trichiura* (whipworm).

2 DOSAGE AND ADMINISTRATION

The recommended dosage for VERMOX™ is described in Table 1 below. The same dosage schedule applies to adults and pediatric patients two years of age and older. The tablet may be chewed, swallowed, or crushed and mixed with food.

Table 1: Dosage of VERMOX in Adult and Pediatric Patients (two years of age and older)

	Pinworm (enterobiasis)	Whipworm (trichuriasis)	Roundworm (ascariasis)	Hookworm
		1 tablet morning and	1 tablet morning and	1 tablet morning and

Dose	1 tablet Once	evening for 3 consecutive days	evening for 3 consecutive days	evening for 3 consecutive days
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If the patient is not cured three weeks after treatment, a second course of treatment is advised. No special procedures, such as fasting or purging, are required.

3 DOSAGE FORMS AND STRENGTHS

Chewable Tablet: 100 mg, round, flat radius-edged white to yellowish chewable tablet that is debossed with "M/100" on one side and "J" on the other side.

4 CONTRAINDICATIONS

VERMOX™ is contraindicated in persons with a known hypersensitivity to the drug or its excipients.

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Convulsions

Although VERMOX™ is approved for use in children two years of age and older, convulsions have been reported in infants below the age of 1 year during post-marketing experience with mebendazole, including VERMOX™ [*see Adverse Reactions (6.2) and Use in Specific Populations (8.4)*].

5.2 Hematologic Effects

Agranulocytosis and neutropenia have been reported with mebendazole use at higher doses and for more prolonged durations than is recommended for the treatment of soil-transmitted helminth infections. Monitor blood counts if VERMOX™ is used at higher doses or for prolonged duration.

5.3 Metronidazole Drug Interaction and Serious Skin Reactions

Stevens-Johnson syndrome/toxic epidermal necrolysis (SJS/TEN) have been reported with the concomitant use of mebendazole and metronidazole. Avoid concomitant use of mebendazole, including VERMOX™ and metronidazole.

6 ADVERSE REACTIONS

6.1 Clinical Studies

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The safety of mebendazole was evaluated in 6276 subjects who participated in 39 clinical trials for treatment of single or mixed parasitic infections of the gastrointestinal tract. In these trials, the formulations, dosages and duration of mebendazole treatment varied. Adverse reactions reported in mebendazole-treated subjects from the 39 clinical trials are shown in Table 2 below.

Table 2: Adverse Reactions Reported in Mebendazole-treated Subjects from 39 Clinical Trials*

Adverse Reaction(s)

Gastrointestinal Disorders

Anorexia

Abdominal Pain

Diarrhea

Flatulence

Nausea

Vomiting

Skin and Subcutaneous Tissue Disorders

Rash

* Includes mebendazole formulations, dosages and treatment duration other than VERMOX™ 100 mg tablet

6.2 Postmarketing Experience

The following adverse reactions have been identified in adult and pediatric patients postmarketing with mebendazole formulations and dosages other than the VERMOX™ 100 mg chewable tablet. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Table 3: Adverse Reactions Identified During Postmarketing Experience with Mebendazole*

	Adverse Reaction(s)
Blood and Lymphatic System Disorders	Agranulocytosis, Neutropenia
Immune System Disorders	Hypersensitivity including anaphylactic reactions
Nervous System Disorders	Convulsions, Dizziness
Hepatobiliary Disorders	Hepatitis, Abnormal liver tests
Renal and Urinary Disorders	Glomerulonephritis
Skin and Subcutaneous Tissue Disorders	Toxic epidermal necrolysis, Stevens-Johnson syndrome, Exanthema, Angioedema, Urticaria, Alopecia

* Includes mebendazole formulations, dosages and treatment duration other than VERMOX™ 100 mg chewable tablets

7 DRUG INTERACTIONS

Concomitant use of mebendazole, including VERMOX™, and metronidazole should be avoided [see *Warnings and Precautions (5.3)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The available published literature on mebendazole use in pregnant women has not reported a clear association between mebendazole and a potential risk of major birth defects or miscarriages [see *Data*]. There are risks to the mother and fetus associated with untreated helminthic infection during pregnancy [see *Clinical Considerations*].

In animal reproduction studies, adverse developmental effects (i.e., skeletal malformations, soft tissue malformations, decreased pup weight, embryoletality) were observed when mebendazole was administered to pregnant rats during the period of organogenesis at single oral doses as low as 10

mg/kg (approximately 0.5-fold the total daily maximum recommended human dose [MRHD]). Maternal toxicity was present at the highest of these doses [see Data].

The estimated background risk of major birth defects and miscarriage for the indicated populations is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2–4% and 15–20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo/Fetal Risks

Untreated soil transmitted helminth infections in pregnancy are associated with adverse outcomes including maternal iron deficiency anemia, low birth weight, neonatal and maternal death.

Data

Human Data

Several published studies, including prospective pregnancy registries, case-control, retrospective cohort, and randomized controlled studies, have reported no association between mebendazole use and a potential risk of major birth defects or miscarriage. Overall, these studies did not identify a specific pattern or frequency of major birth defects with mebendazole use. However, these studies cannot definitely establish the absence of any mebendazole-associated risk because of methodological limitations, including recall bias, confounding factors and, in some cases, small sample size or exclusion of first trimester mebendazole exposures.

Animal Data

Embryo-fetal developmental toxicity studies in rats revealed no adverse effects on dams or their progeny at doses up to 2.5 mg/kg/day on gestation days 6–15 (the period of organogenesis). Dosing at ≥ 10 mg/kg/day resulted in a lowered body weight gain and a decreased pregnancy rate. Maternal toxicity, including body weight loss in one animal and maternal death in 11 of 20 animals, was seen at 40 mg/kg/day. At 10 mg/kg/day, increased embryo-fetal resorption (100% were resorbed at 40 mg/kg/day), decreased pup weight and increased incidence of malformations (primarily skeletal) were observed. Mebendazole was also embryotoxic and teratogenic in pregnant rats at single oral doses during organogenesis as low as 10 mg/kg (approximately 0.5-fold the total daily MRHD, based on mg/m²).

In embryo-fetal developmental toxicity studies in mice dosed on gestation days 6–15, doses of 10 mg/kg/day and higher resulted in decreased body weight gain at 10 and 40 mg/kg/day and a higher mortality rate at 40 mg/kg/day. At doses of 10 mg/kg/day (approximately 0.2-fold the total daily MRHD, based on mg/m²) and higher, embryo-fetal resorption increased (100% at 40 mg/kg) and fetal malformations, including skeletal, cranial, and soft tissue anomalies, were present. Dosing of hamsters and rabbits did not result in embryotoxicity or teratogenicity at doses up to 40 mg/kg/day (1.6 to 3.9-fold the total daily MRHD, based on mg/m²).

In a peri- and post-natal toxicity study in rats, mebendazole did not adversely affect dams or their progeny at 20 mg/kg/day. At 40 mg/kg (1.9-fold the total daily MRHD, based on mg/m²), a reduction of the number of live pups was observed and there was no survival at weaning. No abnormalities were found on gross and radiographic examination of pups at birth.

8.2 Lactation

Risk Summary

Limited data from case reports demonstrate that a small amount of mebendazole is present in human milk following oral administration. There are no reports of effects on the breastfed infant, and the limited reports on the effects on milk production are inconsistent. The limited clinical data during lactation precludes a clear determination of the risk of VERMOX™ to a breastfed infant; therefore, developmental and health benefits of breastfeeding should be considered along with the mother's

clinical need for VERMOX™ and any potential adverse effects on the breastfed infant from VERMOX™ or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of VERMOX™ 100 mg chewable tablets has not been established in pediatric patients less than two years of age. Convulsions have been reported with mebendazole use in children less than one year of age [see *Warnings and Precautions (5.1) and Adverse Reactions (6.2)*].

8.5 Geriatric Use

Clinical studies of mebendazole did not include sufficient numbers of subjects aged 65 and older to determine whether they respond differently from younger subjects.

10 OVERDOSAGE

In patients treated at dosages substantially higher than recommended or for prolonged periods of time, the following adverse reactions have been reported: alopecia, reversible transaminase elevations, hepatitis, agranulocytosis, neutropenia, and glomerulonephritis.

Symptoms and signs

In the event of accidental overdose, gastrointestinal signs/symptoms may occur.

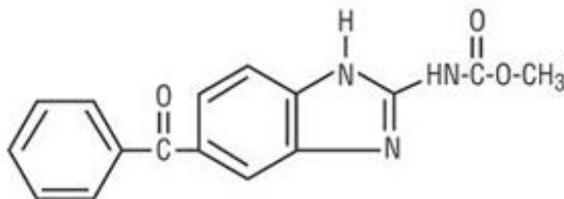
Treatment

There is no specific antidote.

11 DESCRIPTION

VERMOX™ (mebendazole) is an orally administered, synthetic anthelmintic available as chewable tablets, each containing 100 mg of mebendazole. Inactive ingredients are: colloidal silicon dioxide, corn starch, hydrogenated vegetable oil, magnesium stearate, microcrystalline cellulose, sodium lauryl sulfate, sodium saccharin, sodium starch glycolate, talc, tetraorange, and FD&C yellow No.6.

Chemically, mebendazole is methyl 5-benzoylbenzimidazole-2-carbamate with a molecular formula of C₁₆H₁₃N₃O₃ and the following structural formula:



Mebendazole is a white to slightly yellow powder with a molecular weight of 295.29. It is less than 0.05% soluble in water, dilute mineral acid solutions, alcohol, ether and chloroform, but is soluble in formic acid.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Mebendazole, a benzimidazole, is an anthelmintic drug [see *Microbiology (12.4)*].

12.3 Pharmacokinetics

Absorption

Following oral administration of mebendazole, the majority of the dose remains in the gastrointestinal tract where it exerts an anthelmintic effect locally. Following administration of 100 mg twice daily for three consecutive days, plasma concentrations of VERMOX™ (mebendazole) and its primary metabolite, the 2-amine hydrolyzed metabolite, do not exceed 0.03 mcg/mL and 0.09 mcg/mL, respectively. Dosing with a high fat meal increases the bioavailability of mebendazole, although the overall effect of food on the amount of drug remaining in the gastrointestinal tract is not expected to be substantial.

Distribution

The plasma protein binding of mebendazole is 90 to 95%. The volume of distribution is 1 to 2 L/kg, indicating that absorbed mebendazole penetrates areas outside the vascular space.

Metabolism

Orally administered mebendazole is extensively metabolized primarily by the liver. Plasma concentrations of its major metabolites (hydrolyzed and reduced forms of mebendazole) are higher than those of mebendazole. All metabolites are devoid of anthelmintic activity. Impaired hepatic function, impaired metabolism, or impaired biliary elimination may lead to higher plasma concentrations of mebendazole.

Excretion

Mebendazole, the conjugated forms of mebendazole, and its metabolites likely undergo some degree of enterohepatic recirculation. The apparent elimination half-life after an oral dose ranges from 3 to 6 hours in most patients. Less than 2% of orally administered mebendazole is excreted in urine and the remainder in the feces as unchanged drug or its metabolites.

12.4 Microbiology

Mechanism of Action

Mebendazole interferes with cellular tubulin formation in the helminth and causes ultrastructural degenerative changes in its intestine. As a result, its glucose uptake and the digestive and reproductive functions are disrupted, leading to immobilization, inhibition of egg production and death of the helminth.

Antimicrobial Activity

Mebendazole is active against:

Ancylostoma duodenale

Ascaris lumbricoides

Enterobius vermicularis

Necator americanus

Trichuris trichiura

Resistance

There is a potential for development of resistance to mebendazole. The mechanism of resistance to mebendazole is likely due to changes of beta-tubulin protein, which reduces binding of mebendazole to beta-tubulin; however, the clinical significance of this is not known.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In carcinogenicity tests of mebendazole in mice and rats, no carcinogenic effects were seen at doses as high as 40 mg/kg (one to two times the human dose, based on mg/m²) given daily over two years. No mutagenic activity was observed with mebendazole in a bacterial reverse gene mutation test. Mebendazole was mutagenic in the absence of S-9 when tested using a continuous (24 hour) treatment incubation period in the mouse lymphoma thymidine kinase assay. Mebendazole was aneugenic *in vitro* in mammalian somatic cells. In the *in vivo* mouse micronucleus assay, orally administered mebendazole induced an increased frequency of micronucleated polychromatic erythrocytes with evidence suggestive of aneugenicity. Doses up to 40 mg/kg in rats (2 times the total daily human dose, based on mg/m²), given to males for 60 days and to females for 14 days prior to gestation, had no effect upon fetuses and offspring.

14 CLINICAL STUDIES

Efficacy rates derived from various studies are shown in Table 4 below:

Table 4: Mean Cure Rates and Egg Reductions from Clinical Studies

	Pinworm (enterobiasis)	Whipworm (trichuriasis)	Roundworm (ascariasis)	Hookworm
Cure rates mean	95%	68%	98%	96%
Egg reduction mean	-	93%	99%	99%

16 HOW SUPPLIED/STORAGE AND HANDLING

VERMOX™ (mebendazole) is available as 100 mg, round, flat radius-edged white to yellowish chewable tablets that are debossed with "M/100" on one side and "J" on the other side. They are supplied as follows:

Blister package of 12 tablets NDC 50580-070-12

Store at controlled room temperature 59°–77°F (15°–25°C).

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Advise patients that:

- Taking VERMOX™ and metronidazole together may cause serious skin reactions and should be avoided. [see *Warning and Precautions (5.3)*]
- VERMOX™ can be taken with or without food. [see *Dosage and Administration (2)*]

Product of Belgium

Manufactured by:
Janssen Pharmaceutica NV
Beerse, Belgium

Manufactured for:
Janssen Pharmaceuticals, Inc.
Titusville, New Jersey 08560

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PATIENT INFORMATION
VERMOX™ (ver-MOX)
(mebendazole) chewable tablets, for oral use

What is VERMOX?

VERMOX is a prescription medicine used to treat adults and children 2 years of age and older with intestinal worm infections caused by pinworm, whipworm, roundworm, or hookworm.

Who should not take VERMOX?

Do not take VERMOX if you are **allergic** to mebendazole or any of the ingredients in VERMOX. See the end of this leaflet for a complete list of ingredients in VERMOX.

Before you take VERMOX, tell your healthcare provider about all of your medical conditions, including if you:

- are pregnant or plan to become pregnant. It is not known if VERMOX will harm your unborn baby.
- are breastfeeding or plan to breastfeed. VERMOX can pass into your milk and may harm your baby. Talk to your healthcare provider about the best way to feed your baby if you take VERMOX. Do not breastfeed while taking VERMOX.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Using VERMOX with certain other medicines can change the way these medicines act, causing serious side effects.

Know the medicines you take. Keep a list of them to show to your healthcare provider or pharmacist when you get a new medicine.

How should I take VERMOX?

- Take VERMOX exactly as your healthcare provider tells you to take it.
- Take VERMOX by mouth with or without food.
- VERMOX tablets may be chewed, swallowed, or crushed and mixed with food.
- If you take too much VERMOX, you might have symptoms that include stomach cramps, nausea, vomiting or diarrhea.

What should I avoid while taking VERMOX?

Do not take VERMOX with metronidazole (a medicine used to treat bacterial and protozoan infections) as serious skin reactions called Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN) can happen.

What are the possible side effects of VERMOX?

VERMOX may cause serious side effects, including:

- **Low white blood cell count (neutropenia).** Neutropenia can cause you to get other infections. Your healthcare provider will check your blood count regularly during your treatment with VERMOX. Tell your healthcare provider right away if you have a fever or any signs of an infection while taking VERMOX.
- **Severe skin reactions (Stevens-Johnson syndrome and toxic epidermal necrolysis).** VERMOX may cause rare, but serious skin reactions when taken with metronidazole and other medicines that contain mebendazole. These severe allergic reactions may be life-threatening and need to be treated in a hospital. Call your healthcare provider right away or get emergency medical help if you have any allergic reactions or the following symptoms:
 - severe skin blisters
 - sores around the mouth, nose, eyes, vagina or penis (genitals)
 - peeling skin
 - swollen face, lips, mouth, tongue or throat
 - itchy rash (hives)

The most common side effects of VERMOX include:

- loss of appetite (anorexia)
- stomach pain
- nausea

- stomach pain
- diarrhea
- passing gas
- vomiting
- rash

Tell your healthcare provider if you have any side effect that bothers you or does not go away. These are not all the possible side effects of VERMOX.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store VERMOX?

- Store at room temperature between 59°F to 77°F (15°C to 25°C).
- Safely throw away medicine that is out of date or no longer needed.

Keep VERMOX and all medicines out of the reach of children.

General information about the safe and effective use of VERMOX.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use VERMOX for a condition for which it was not prescribed. Do not give VERMOX to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about VERMOX that is written for health professionals.

What are the ingredients in VERMOX?

Active ingredient: mebendazole

Inactive ingredients: colloidal silicon dioxide, corn starch, hydrogenated vegetable oil, magnesium stearate, microcrystalline cellulose, sodium lauryl sulfate, sodium saccharin, sodium starch glycolate, talc, tetraorange, and FD&C yellow No.6.

Manufactured by: Janssen Pharmaceutica NV, Beerse, Belgium

Manufactured for: Janssen Pharmaceuticals, Inc., Titusville, New Jersey 08560

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For more information, call 1-800-JANSSEN (1-800-526-7736).

This Patient Information has been approved by the U.S. Food and Drug Administration

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PRINCIPAL DISPLAY PANEL - 100 mg Tablet Blister Pack Carton

McNeil

Consumer Healthcare

NDC 50580-070-12

12 chewable tablets:

100 mg per tablet

VERMOX®

(MEBENDAZOLE)

Rx Only

Usual dosage: See package insert for dosage information.



VERMOX

mebendazole tablet, chewable

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:50580-070
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
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mebendazole (UNII: 81G6I5V05I) (mebendazole - UNII:81G6I5V05I)	mebendazole	100 mg
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Inactive Ingredients

Ingredient Name	Strength
silicon dioxide (UNII: ETJ7Z6XBU4)	
magnesium stearate (UNII: 70097M6B0)	
microcrystalline cellulose (UNII: OP1R32D61U)	
starch, corn (UNII: O8232NY3SJ)	
sodium lauryl sulfate (UNII: 368GB5141J)	
sodium starch glycolate type a potato (UNII: 5856J3G2A2)	
talc (UNII: 7SEV7J4R1U)	
orange (UNII: 5EVU04N5QU)	
FD&C Yellow No. 6 (UNII: H77VEI93A8)	
saccharin sodium (UNII: SB8ZUX40TY)	

Product Characteristics

Color	ORANGE (light orange)	Score	2 pieces
Shape	ROUND	Size	10mm
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:50580-070-12	1 in 1 CARTON	01/14/1975	
1		12 in 1 BLISTER PACK; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA017481	01/14/1975	

Labeler - Johnson & Johnson Consumer Inc, McNeil Consumer Healthcare Division (878046358)

Establishment

Name	Address	ID/FEI	Business Operations
Janssen Pharmaceutica NV		370005019	API MANUFACTURE(50580-070) , MANUFACTURE(50580-070)

Revised: 6/2017

Johnson & Johnson Consumer Inc, McNeil Consumer Healthcare Division